

## Walker County, Texas

### 23—Houston Black clay, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2ssh2

*Elevation:* 140 to 450 feet

*Mean annual precipitation:* 36 to 41 inches

*Mean annual air temperature:* 69 to 70 degrees F

*Frost-free period:* 232 to 256 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Houston black and similar soils:* 80 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Houston Black

##### Setting

*Landform:* Ridges

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Interfluve

*Microfeatures of landform position:* Linear gilgai

*Down-slope shape:* Convex, linear

*Across-slope shape:* Convex, linear

*Parent material:* Clayey residuum weathered from calcareous mudstone of upper cretaceous age

##### Typical profile

*Ap - 0 to 6 inches:* clay

*Bkss - 6 to 70 inches:* clay

*BCKss - 70 to 80 inches:* clay

##### Properties and qualities

*Slope:* 1 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Moderately well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 35 percent

*Gypsum, maximum in profile:* 5 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 2.0

*Available water storage in profile:* High (about 9.6 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2e

*Hydrologic Soil Group:* D

*Ecological site:* Blackland 32-40 PZ (R086BY208TX)

*Hydric soil rating:* No

### **Minor Components**

#### **Heiden**

*Percent of map unit:* 15 percent

*Landform:* Plains

*Microfeatures of landform position:* Linear gilgai

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Ecological site:* Blackland 32-40 PZ (R086BY208TX)

*Hydric soil rating:* No

#### **Fairlie**

*Percent of map unit:* 5 percent

*Landform:* Ridges

*Landform position (two-dimensional):* Toeslope, footslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Ecological site:* Blackland 32-40 PZ (R086BY208TX)

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Walker County, Texas

Survey Area Data: Version 12, Sep 19, 2016